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| Application Data Sheet 37 CFR 1.7 |                                   |  | Attorne                               | y Docket N                       | Number 403812/YOSHIDA    |            |  |                |
|-----------------------------------|-----------------------------------|--|---------------------------------------|----------------------------------|--------------------------|------------|--|----------------|
| Appi                              | ication Da                        | ita Sileet 37  | OIK I.A                               | Applica                          | tion Numbe               | er         |  |                |
| Title o                           | f Invention                       | OPTICAL RO   | TARY ENCC                             | DDER                             |                          |            |  |                |
| bibliogra<br>This do              | aphic data arran<br>cument may be | ged in a format sp   | ecified by the onically and s         | United States I submitted to the | Patent and Tra           | ademark Of | peing submitted. The following form of<br>fice as outlined in 37 CFR 1.76.<br>mat using the Electronic Filing Syst |                |
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| Applic                            | ant 1                             |  |                                       |                                  |                          |            | Remove   |                |
| Applic                            | ant Authori                       | ty • Inventor  | ◯Legal R                              | Representativ                    | e under 35 l             | J.S.C. 117 | Party of Interest under  | 35 U.S.C. 118  |
| Prefix                            | Given Nar                         | ne   |                                       | Middle Nar                       | ne                       |            | Family Name  | Suffix         |
| Mr.                               | Takeshi                           |  |                                       |                                  |                          |            | MUSHA  |                |
| Resid                             | lence Inforn                      | nation (Select   | One) 0                                | US Residenc                      | y 💿 No                   | n US Res   | idency Active US Military  | Service        |
| City                              | Tokyo                             |  | Cou                                   | untry Of Re                      | sidencei                 | JP         |  |                |
| Citize                            | nship under                       | 37 CFR 1.41(   | <b>b)</b> i JP                        |                                  |                          |            |  |                |
| Mailin                            | g Address o                       | of Applicant:  |                                       |                                  |                          |            |  |                |
| Addre                             | ss 1                              | c/o Mits   | ubishi Electri                        | ic Corporation                   | า                        |            |  |                |
| Addre                             | ss 2                              | 7-3, Mai   | runouchi 2-cl                         | home, Chiyo                      | da-ku                    |            |  |                |
| City                              | Tokyo                             |  |                                       |                                  | Stat                     | e/Provin   | ce   |                |
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| Applic                            |                                   | ity • Inventor   | ◯l enal R                             | Representativ                    | e under 35 l             | LS C. 117  | Party of Interest under  | 35 U.S.C. 118  |
| Prefix                            |                                   |  |                                       | Middle Nar                       |                          | 7.0.0.     |  | Suffix         |
|                                   |                                   |  |                                       | Wildule Nai                      | iie                      |            | Family Name  | Suili          |
| Mr.                               | Toru                              | antion (Colont   | One) (                                | US Residenc                      | , No                     | n US Res   | OKA idency Active US Military  | Contino        |
| City                              | Tokyo                             | nation (Select   | $\overset{\cdot}{}\overset{\smile}{}$ | untry Of Re                      |                          | JP         | adericy Active US Military   | Service        |
|                                   |                                   | . 27 CED 4 44/   |                                       | untry Of Re                      | sidence                  | JP         |  |                |
|                                   | -                                 | · 37 CFR 1.41(<br>of Applicant:  | b) i JP                               |                                  |                          |            |  |                |
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|                                   |                                   | 1.22.30  |                                       |                                  | ,                        |            | Remove   |                |
| Applic                            |                                   | ty ( Inventor  |                                       | ?enresentativ                    | e under 35 l             | LS C. 117  |  | 35 I I S C 118 |
| ADDIT                             | ·sor Authori                      | TATE OF THE VICE O | i ( ilcuair                           | veni escillativ                  | cunu <del>c</del> i JJ l | J.U.U. 111 | II II GILLY OF ITHER EST UTILLER   | JJ U.J.U. 110  |

**Middle Name** 

Country Of Residence

US Residency

**Family Name** 

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Non US Residency

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**Suffix** 

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City

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Residence Information (Select One)

Yoichi

Tokyo

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| Application Data Sheet 37 CFR 1.76   |                |                              | Attorney Docket Number             |               | 40381              | 403812/YOSHIDA |             |            |               |
|--|----------------|------------------------------|------------------------------------|---------------|--------------------|----------------|-------------|------------|---------------|
| Application Da   | et 37 CFK 1.76 |                              | Application Number                 |               |                    |                |             |            |               |
| Title of Invention   | OPTIO          | CAL ROTARY EI                | NCODE                              | ΞR            |                    |                |             |            |               |
| Citizenship under  | r 37 CFI       | R 1.41(b) i                  | JP                                 |               |                    |                |             |            |               |
| Mailing Address  | of Appli       | icant:                       |                                    |               |                    |                |             |            |               |
| Address 1  |                | c/o Mitsubishi El            | /o Mitsubishi Electric Corporation |               |                    |                |             |            |               |
| Address 2  |                | 7-3, Marunouchi              | 3, Marunouchi 2-chome, Chiyoda-ku  |               |                    |                |             |            |               |
| City Tokyo   | •              |                              |                                    |               | State/Prov         | ince           |             |            |               |
| Postal Code  |                | 100-8310                     |                                    | Co            | untryi JP          |                |             |            |               |
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| Customer Number  | er             | 23548                        |                                    |               |                    |                |             |            |               |
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| Application Ir   | nform          | ation:                       |                                    |               |                    |                |             |            |               |
| Title of the Invent  | ion            | OPTICAL RO                   | DTARY                              | ENCODER       |                    |                |             |            |               |
| Attorney Docket  | du 403812/YOS  | HIDA                         |                                    | Small E       | ntity Stat         | us Claime      | ed 🗌        |            |               |
| Application Type   | Nonprovision   | Nonprovisional               |                                    |               |                    |                |             |            |               |
| Subject Matter   |                | Utility                      |                                    |               |                    |                |             |            |               |
| Suggested Class (if any)   |                |                              |                                    |               | Sub Class (if any) |                |             |            |               |
| Suggested Techn  | ology (        | Center (if any)              |                                    |               |                    |                | •           |            |               |
| Total Number of I  | Drawing        | Sheets (if an                | ıy)                                | 11            | Sugges             | ted Figur      | e for Publ  | lication ( | if any)       |
| Publication Infor  | nation:        |                              |                                    |               |                    |                |             |            |               |
| Request Early  | / Publica      | ation (Fee requ              | uired a                            | t time of Req | uest 37 CFR 1      | .219)          |             |            |               |
| Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not been and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.   |                |                              |                                    |               |                    |                |             |            |               |
| Representative Information:  |                |                              |                                    |               |                    |                |             |            |               |
| Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).  Enter either Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing. |                |                              |                                    |               |                    |                |             |            |               |
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| Application Da     | nta Sheet 37 CFR 1.76  | Attorney Docket Number | 403812/YOSHIDA |
|--------------------|------------------------|------------------------|----------------|
| Application Be     | ita onector of it 1.70 | Application Number     |                |
| Title of Invention | OPTICAL ROTARY ENCODE  | ER                     |                |
| Customer Number    | 23548                  |                        |                |

### **Domestic Priority Information:**

This section allows for the applicant to claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c). Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a) (4), and need not otherwise be made part of the specification.

| ` ''  | ' '                    |                          |                          |  |  |  |  |
|---|------------------------|--------------------------|--------------------------|--|--|--|--|
| Prior Application Status  | Pending                | Remove                   |                          |  |  |  |  |
| Application Number  | Continuity Type        | Prior Application Number | Filing Date (YYYY-MM-DD) |  |  |  |  |
|   | a 371 of international | PCT/JP2005/005822        | 2005-03-29               |  |  |  |  |
| Additional Domestic Priority Data may be generated within this form by selecting the <b>Add</b> button. |                        |                          |                          |  |  |  |  |

### **Foreign Priority Information:**

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a).

| Remove  |           |                                 |                  |  |  |  |  |  |
|---|-----------|---------------------------------|------------------|--|--|--|--|--|
| Application Number  | Country i | Parent Filing Date (YYYY-MM-DD) | Priority Claimed |  |  |  |  |  |
| 2004-105679   | JP        | 2004-03-31                      | Yes  ○ No        |  |  |  |  |  |
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# Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office. Remove Assignee 1 If the Assignee is an Organization check here.  $\overline{}$ Organization Name MITSUBISHI ELECTRIC CORPORATION **Mailing Address Information:** Address 1 7-3, Marunouchi 2-chome Address 2 Chiyoda-ku City Tokyo State/Province Country i 100-8310 Postal Code Phone Number Fax Number **Email Address** Additional Assignee Data may be generated within this form by selecting the Add Add button.

## Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

PTO/SB/14 (08-05) Approved for use through 07/31/2006. OMB 0651-0032

29458

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Registration Number

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| Application Data Sheet 37 CFR 1.76       |  |    | Attorney Docket Number | 403812/YOSHIDA    |            |  |  |
|--|--|----|------------------------|-------------------|------------|--|--|
|  |  |    | Application Number     |                   |            |  |  |
| Title of Invention OPTICAL ROTARY ENCODE |  | ER | •                      |                   |            |  |  |
|  |  |    |                        |                   |            |  |  |
| Signature /Jeffrey A. Wyand/             |  |    |                        | Date (YYYY-MM-DD) | 2006-09-21 |  |  |

Wyand

Last Name

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.** 

First Name

Jeffrey

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- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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